

2021-2022

Chapter No	Name	Title of chapters	Author(s)	Name of the book, volume and year of publication	Publisher
1.	Dr. K. Sathish Kumar	Electron Beam Accelerators: Wastewater to Useable Water	Mrunal Deshpande, K. Sathish Kumar, R. Rengaraj, G.R. Venkatakrishnan, Hithu Anand	Advanced Oxidation Processes for Wastewater Treatment, 2022	CRC Press, Taylor & Francis, 2022.
2	Dr. P. Senthil Kumar	Bioelectrochemical systems for remediation and recovery of nutrients from industrial wastewater	K. Grace Pavithra, P. Senthil Kumar*	Biomass, Biofuels, Biochemicals 1st Edition Circular Bioeconomy—Current Developments and Future Outlook 2021 https://doi.org/10.1016/B978-0-12-821878-5.00018-0	Elsevier Publications eBook ISBN: 9780128218938 Paperback ISBN: 9780128218785
3		Biomaterials for Cell Regeneration	A. Saravanan, P. Senthil Kumar* , R.V. Hemavathy, S. Jeevanantham	Nanohybrids: Future Materials for Biomedical Applications Vol. 87, pp. 55-68, 2021 https://doi.org/10.21741/9781644901076-2	Materials Research Forum LLC ISSN 2471-8890 (Print) ISSN 2471-8904 (Online) Print ISBN 978-1-64490-106-9 eBook ISBN 978-1-64490-107-6 https://doi.org/10.21741

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4		Nanohybrids for Wound Healing Application	A. Saravanan, P. Senthil Kumar* , R. Jayasree, S. Jeevanantham	Nanohybrids: Future Materials for Biomedical Applications Vol. 87, pp. 121- 133, 2021 https://doi.org/10.21741/9781644901076-5	Materials Research Forum LLC ISSN 2471-8890 (Print) ISSN 2471-8904 (Online) Print ISBN 978-1- 64490-106-9 eBook ISBN 978-1- 64490-107-6 https://doi.org/10.21741/9781644901076
5		Role of Liposomes Composite as Drug Transport Mechanism	P. Senthil Kumar* , P. R. Yaashikaa	Nanohybrids: Future Materials for Biomedical Applications Vol. 87, pp. 230- 243, 2021 https://doi.org/10.21741/9781644901076-9	Materials Research Forum LLC ISSN 2471-8890 (Print) ISSN 2471-8904 (Online) Print ISBN 978-1- 64490-106-9 eBook ISBN 978-1- 64490-107-6 https://doi.org/10.21741/9781644901076
6		Hydrological contaminant transport	G. Prasannamedha, P. Senthil Kumar*	Water Engineering Modelling And Mathematics Tools, pp. 235- 250, 2021 https://doi.org/10.1016/B978-0-12-820644-7.00014-1	Elsevier Publications ISBN: 978-0-12- 820644-7

7		Water Footprint In Leather Tanning And Steel Production	P. Senthil Kumar* , P. Tsopbou Ngueagni, E. Djoufac Woumfo	Water Footprint Assessment & Industrial Case Studies pp. 137-156, 2021 https://doi.org/10.1007/978-981-33-4377-1_5	Springer Publications ISSN 2345-7651 ISSN 2345-766X (electronic) ISBN 978-981-33-4376-4 ISBN 978-981-33-4377-1 (eBook) https://doi.org/10.1007/978-981-33-4377-1
8		Industrial Water Footprint: Case Study On Textile Industries	P. Senthil Kumar* , S. M. Prasanth, S. Harish, M. Rishikesh	Water Footprint Assessment & Industrial Case Studies pp. 35-60, 2021 https://doi.org/10.1007/978-981-33-4377-1_2	Springer Publications ISSN 2345-7651 ISSN 2345-766X (electronic) ISBN 978-981-33-4376-4 ISBN 978-981-33-4377-1 (eBook) https://doi.org/10.1007/978-981-33-4377-1
9		Development of Renewable Energies and Its Consequences on the Ecological Footprint	B. Senthil Rathi , P. Senthil Kumar*	Environmental Footprints and Eco-design of Products and Processes: Assessment of Ecological Footprints pp. 95-108, 2021 DOI: 10.1007/978-981-16-0096-8_4	Springer Publications eBook ISBN: 978-981-16-0096-8 Hardcover ISBN: 978-981-16-0095-1 DOI: 10.1007/978-981-16-0096-8
10		Sustainable Approach on the Treatment of Textile Wastewater Using Membrane Techniques	R. Sivaranjane, P. Senthil Kumar	Advances in Textile Waste Water Treatments, pp. 89-102, 2021	Springer Publications eBook ISBN: 978-981-16-0065-4 Hardcover ISBN: 978-981-16-0064-7

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11		Treatment of Textile Wastewater Using Biochar Produced from Agricultural Waste	R. Sivaranjane, P. Senthil Kumar	Advances in Textile Waste Water Treatments, 2021 DOI: 10.1007/978-981-16-0065-4_8	Springer Publications 978-981-16-0064-7, 499405_1
12		Photocatalytic heavy metal detoxification from water systems	P. Senthil Kumar* , G. Janet Joshiba	Photocatalysis: Advanced Materials And Reaction Engineering 100 (2021) pp. 57-76 DOI: 10.21741/9781644901359-2	Materials Research Forum LLC, USA ISSN 2471-8890 (Print) ISSN 2471-8904 (Online) Print ISBN 978-1-64490-134-2 eBook ISBN 978-1-64490-135-9
13		Recent advances in photocatalytic nitrogen fixation	A. Saravanan, P. Senthil Kumar*	Photocatalysis: Advanced Materials And Reaction Engineering 100 (2021) pp. 193-207 DOI: 10.21741/9781644901359-6	Materials Research Forum LLC, USA ISSN 2471-8890 (Print) ISSN 2471-8904 (Online) Print ISBN 978-1-64490-134-2 eBook ISBN 978-1-64490-135-9
14		Photocatalytic membranes	P. Senthil Kumar* , P.R.	Photocatalysis: Advanced	Materials Research Forum LLC, USA

			Yaashikaa	Materials And Reaction Engineering 100 (2021) pp. 253-272 DOI: 10.21741/9781644901359-8	ISSN 2471-8890 (Print) ISSN 2471-8904 (Online) Print ISBN 978-1-64490-134-2 eBook ISBN 978-1-64490-135-9
15		Sustainability in Textile Design	P. Senthil Kumar* , P.R. Yaashikaa, C. Femina Carolin	Sustainable Design in Textiles and Fashion, DOI: 10.1007/978-981-16-2466-7_3, 2021	Springer Publications 978-981-16-2465-0, 509950
16		Adsorbents based on chemically modified natural polymers	A. Saravanan, P. Senthil Kumar* , S. Jeevanantham	Natural Polymers-Based Green Adsorbents for Water Treatment 2021 DOI:10.1016/B978-0-12-820541-9.00007-7	Elsevier Publications ISBN: 978-0-12-820541-9
17		Hazards and environmental effects of nanomaterials in bioenergy applications	A. Saravanan, S.Jeevanantham, R.Jayasree, R.V.Hemavathy, P.Senthil Kumar , P.R.Yaashikaa	Nanomaterials application in biofuels and bioenergy production systems 2021, pp. 701-711. DOI: https://doi.org/10.1016/B978-0-	Elsevier Publications ISBN: 9780128224014

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18		Circular Economy: An Insightful Tool for Sustainable Management of Wastewater	B. Senthil Rathi, P. Senthil Kumar*	Environmental Footprints and Eco-design of Products and Processes, Circular Economy, DOI: 10.1007/978-981-16-3698-1_7, 2021	Springer Publications 978-981-16-3697-4, 512520_1
19		Application of Life Cycle Sustainability Assessment to Evaluate the Future Energy Crops for Sustainable Energy and Bioproducts	R. Anitha, R. Subashini, P. Senthil Kumar	Life Cycle Sustainability Assessment 2021 DOI: 10.1007/978-981-16-4562-4_4	Springer Publications
20	Dr. D. Balaji	Advanced oxidation process for effluent treatment in textile, pharmaceutical, and tannery industries	Saravanathamizhan, R., Perarasu, V.T., Dhandapani, B	Photocatalytic Degradation of Dyes. pp. 719–745. https://doi.org/10.1016/B978-0-12-823876-9.00020-2	Elsevier

21		Application of Sustainable Micro-Algal Species in the Production of Bioenergy for Environmental Sustainability	Kandasamy S, Jayabalan J, Dhandapani B.	Biotechnology for Zero Waste p. 315–28. https://onlinelibrary.wiley.com/doi/abs/10.1002/9783527832064.ch20	Wiley
22	Dr.Kilaru Harsha Vardhan	1. Water Footprint in Leather Tanning and Steel Production	P Senthil Kumar, P Tsopbou Ngueagni, E Djoufac Woumfo, Kilaru Harsha Vardhan	Water Footprint: Assessment and Case Studies, 137-156, 2021	Springer Singapore